



ABSTRACT OF THE DISCLOSURE

A system (10) and method for forming and quenching glass sheets with curvatures both along and transverse to a direction of conveyance includes a furnace (12) having an exit end (22) with a roll bending station (14), a press bending station located downstream from the exit end of the furnace and having a lower ring mold (46) and an upper press mold (48) operated by an actuator (50), and a quench station (18) that provides toughening of the formed glass sheet. The roll bending station (14) has sets (30) of inclined bending rolls (32) supported and rotatively driven by a drive mechanism (34) located externally of the furnace (12) and projecting into the furnace with increasing inclinations along the direction of conveyance. The glass sheet forming is performed without the necessity for excessive heating so that the glass is sufficiently hot upon quenching to provide the toughening.